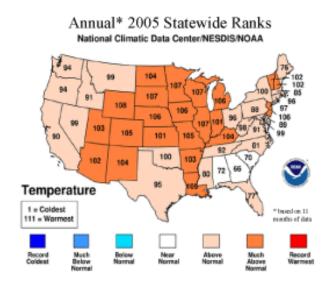
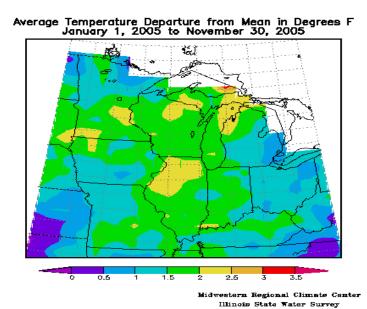
2005 in Review for central Kentucky and south-central Indiana By John Denman, Forecaster

The tables below summarizes precipitation, snowfall totals, and extreme temperatures in 2005 for Louisville (Weather Service Office), Lexington, and Bowling Green. Also included as a comparison...are data from 2004.

	Louisville	Lexington	Bowling Green
2005 Total precipitation	40.76 inches	33.51 inches	40.07 inches
2004 Total precipitation	65.41 inches	62.36 inches	54.62 inches
Normal precipitation 2005 Departure from	44.50 inches	45.91 inches	51.63 inches
normal	- 3.74 inches	- 12.40 inches	-11.56 inches
Total snowfall for 2005	9.0 inches	6.0 inches	0.1 inches
Total Snowfall for 2004	15.0 inches	5.0 inches	4.0 inches
Normal Snowfall 2005 Departure from	14.6 inches	15.7 inches	10.2 inches
Normal	-5.6 inches	-9.7 inches	-10.1 inches
	Louisville	Lexington	Bowling Green
Highest Temperature 2005		C	
Highest Temperature 2005 Highest Temperature 2004	Louisville 98 (Aug 13) 92 (Aug 19)	Lexington 98 (Aug 12) 89 (Aug 19)	Bowling Green 99(Aug 11) 92 (July 13)
Highest Temperature 2004 Lowest Temperature 2005	98 (Aug 13) 92 (Aug 19) 7 (Jan 18th	98 (Aug 12) 89 (Aug 19) 6 (Jan 18,23)	99(Aug 11) 92 (July 13) 10 (Dec 20)
Highest Temperature 2004	98 (Aug 13) 92 (Aug 19)	98 (Aug 12) 89 (Aug 19)	99(Aug 11) 92 (July 13)
Highest Temperature 2004 Lowest Temperature 2005	98 (Aug 13) 92 (Aug 19) 7 (Jan 18th	98 (Aug 12) 89 (Aug 19) 6 (Jan 18,23)	99(Aug 11) 92 (July 13) 10 (Dec 20)
Highest Temperature 2004 Lowest Temperature 2005 Lowest Temperature 2004 Greatest 24-hr Rainfall 2005	98 (Aug 13) 92 (Aug 19) 7 (Jan 18th	98 (Aug 12) 89 (Aug 19) 6 (Jan 18,23)	99(Aug 11) 92 (July 13) 10 (Dec 20)
Highest Temperature 2004 Lowest Temperature 2005 Lowest Temperature 2004 Greatest 24-hr Rainfall	98 (Aug 13) 92 (Aug 19) 7 (Jan 18th - 5 (Jan 31)	98 (Aug 12) 89 (Aug 19) 6 (Jan 18,23) - 6 (Jan 31)	99(Aug 11) 92 (July 13) 10 (Dec 20) + 6 (Jan 31)
Highest Temperature 2004 Lowest Temperature 2005 Lowest Temperature 2004 Greatest 24-hr Rainfall 2005 Greatest 24-hr Rainfall	98 (Aug 13) 92 (Aug 19) 7 (Jan 18th - 5 (Jan 31) 3.08 (Aug 30)	98 (Aug 12) 89 (Aug 19) 6 (Jan 18,23) - 6 (Jan 31) 2.07 Aug (30-31)	99(Aug 11) 92 (July 13) 10 (Dec 20) + 6 (Jan 31) 4.39 (Aug29-30)

2005 was quite warm across central Kentucky and southern Indiana. As the map below shows...January through November of 2005 ranked the 104^{th} warmest out of a possible 111 years for Kentucky as a whole. For Indiana, this last year ranked the 101^{st} warmest.



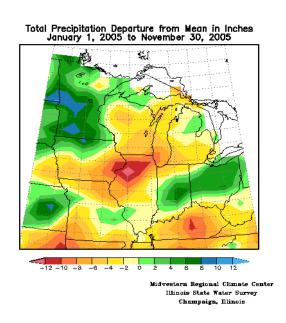


Champaign, Illinois

average temperature departure from the mean for the Midwest. This year's greatest temperature anomalies centered across the western Great Lakes...but temperature averaged one to two degrees above normal across Kentucky and southern Indiana.

The map on the left shows the

2005 was also considerably drier than last year, when ample rains lead to a record wet year in some locations. Over the entire year, the greatest rainfall deficits accumulated across eastern Kentucky, the Bluegrass region, and parts of the south. In fact, for the Lexington Airport, the 33.52 inches of rainfall recorded these past 12 months made 2005 the 9th driest year on record. This was the driest year in Lexington since 1999, when only 31.97 inches were recorded. The first map below shows rainfall deficits for all of 2005...through the month of November. Precipitation deficits approached 12 inches across the southern Bluegrass region. The map on the right shows that for the state as a whole, through the month of November, 2005 was the 19th driest during a 111 year record.





Total Snowfall

Winter season....January and February

Temperatures Compared to Normal

	January February	January	February
Louisville	+4.0 deg +2.3 deg	2.5 in	1.2 in
Lexington	+5.5 deg +3.2 deg	2.3 in	0.4
Bowling Green	+7.1 deg +3.7 deg	T	T

Spring season....March, April and May

The spring of 2005 proved slightly cooler than normal...with a relative lack of severe weather. Our forecast area of central Kentucky and southern Indiana recorded only two tornadoes. Both tornadoes were rated as F-0. The first occurred March 19 in eastern Spencer County near Brier Ridge. With winds estimated near 70 mph, it damaged a general store and a parsonage. The second tornado is shown below. It occurred April 22, just south of Slugger field. This weak circulation touched down at the intersection of Campbell and Market streets, where it flipped over an empty trailer and damaged the roof of a stockyard company.



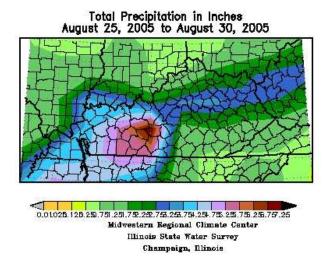
Temperatures Compared to Normal			Total I	Precipitat	ion	
	March	April	May	March	April	May
Louisville	-5.2 deg	+0.7 deg	-3.3 deg	3.90 in	3.51 in	4.56 in
Lexington	-5.0 deg	+1.7 deg	-2.3 deg	3.49 in	3.47 in	2.64 in
Bowling Green	-3.2 deg	+0.7 deg	-2.6 deg	3.52 in	5.80 in	2.45 in

Summer season....June, July, and August

Total	Preci	pitat	ion
I Ctui	11001	PILL	1011

	June	July	August	June	July	August
Louisville Lexington Bowling Green	+2.7 deg	- 0.9 deg +1.7 deg +0.4 deg	+3.7 deg	2.28 in	3.05 in	7.04 in 6.10 in 8.36 in

This summer contrasted greatly with that of 2004. Temperatures were somewhat warmer than normal. Rainfall was sporadic; except for a very wet week in late August associated with the remains of hurricane Katrina. The map below shows rainfall totals associated with the remains of Katrina. Over one half of Bowling Green's summer rain (over 7 inches) fell during this 6 day period in late August. Rainfall amounts of around 4 inches also fell across Lexington and Louisville. In addition, in early July, the remnants of hurricane Dennis brought 1 to 3 inches of rain, as well as cool daytime highs in the mid 70s. Hurricanes played a greater role in our precipitation totals this summer than in the vast majority of past years.



Fall season...September, October, and November

Temperatures Compared to Normal Total Precipitation

	September	October	November	Sept	Oct	Nov
Louisville Lexington Bowling Green	+3.7 deg	+1.4 deg	+0.2 deg +1.2 deg +1.4 deg	0.89 in	1.25 in 0.93 in 0.28 in	

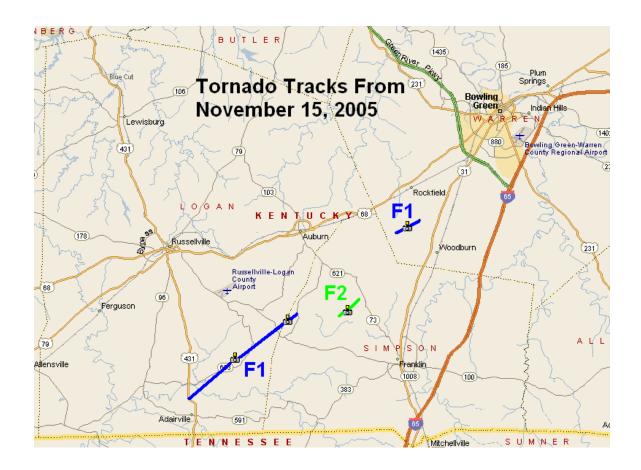
September and October were exceeding dry. Note the rankings in the chart below. The only drier period for Lexington and Bowling Green was September and October of 1963, when only 0.70 and 0.34 inches of rain fell respectively.

City	Sept – Oct	Normal Sept –	Departure from	Rank since
	rainfall	Oct rainfall	normal	records began
Louisville NWS	3.15 in	5.84 in	-2.69 in	4 th driest
office				
Lexington	1.82 in	5.91 in	-4.09 in	2 nd driest
Bowling Green	0.76 in	7.30 in	-6.54 in	2 nd driest

Several severe weather episodes in November brought additional tornados to central Kentucky, capping the number of tornados for 2005 at 6. The strongest tornado of the year struck Munfordville during the early morning hours of November 6th. This rated a strong F-2 and had a path length of 1 mile and a maximum width of 200 yards. This tornado significantly damaged downtown Munfordville. The picture below shows some of the damage with this tornado.



A second outbreak of severe weather brought 3 additional tornados to the Bowling Green area on Nov 15th. The map below shows the paths and strengths of these three tornados, which came from the same supercell.



December of 2005

This past month started out quite cold. For both Lexington and Louisville, the first 22 days of the month had average temperatures at or below normal. The table below shows temperature and precipitation statistics for December.

	Average temp	Departure from	Precipitation	Departure from
		normal		normal
Louisville	32.4	-5.2	2.24	-1.45
Lexington	32.4	-3.9	2.40	-1.63
Bowling Green	35.0	-3.3	2.02	-3.04